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Data characterization for intelligent graphics presentation - group of 13 »

SF Roth, J Mattis - Proceedings of the SIGCHI conference on Human factors in ..., 1990 - portal.acm.org

... The nature of the ordering, **relationship** among a ... might be grouped separately from

data unrelated to ... cost relation is a functional **dependency**, **mapping** from each ...

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System and method for providing a graphical user interface for mapping and accessing objects in data ... - group of 3 »

DT Chang, C Lau, T Lee - US Patent 5,627,979, 1997 - Google Patents

... **MAPPING AND ACCESSING OBJECTS IN ...** describes a group of objects with similar **DATA STORES** properties ... the same attributes and behavior 5mon **relationships** to other ...

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A logical design methodology for relational databases using the extended entity-relationship model - group of 7 »

TJ Teorey, D Yang, JP Fry - ACM Computing Surveys (CSUR), 1986 - portal.acm.org

... Existence **dependency** was added by Webre [1981]. ... will transform equivalently to a rela- tional **data** model scheme ... of a **relationship** specifies the **mapping** of the ...

Cited by 365 - [Related Articles](#) - [Web Search](#)

[PS] Translating Web Data - group of 8 »

L Popa, Y Velegrakis, RJ Miller, MA Hernandez, R ... - ... of the International Conference on Very Large **Data** Bases (..., 2002 - csri.toronto.edu

... Each logical **mapping** transforms one semantic ... Preservation of semantic **relationships** is something unique to ... automatic generation of **data** transformations ([MHH00 ...

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Interactive maps for visual data exploration - group of 2 »

GL ANDRIENKO - International Journal of Geographical Information Science, 1999 - Taylor & Francis

... a user only selects one or more **data** variables (table ... responds with a list of **map** presentations that ... the case of several variables, to **relationships** among them ...

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Array variable transformation system employing subscript table mapping to scalar loop indices - group of 3 »

M Lai, JL Ng, JF Shaw - US Patent 5,485,619, 1996 - Google Patents

... ifthe array definition/ use **relationship data** indicate that the ... cases of difficult and inefficient **data dependency**. ... position Technique for **Mapping** Nested Loops ...

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[BOOK] Qualitative Data Analysis: a user-friendly guide for social scientists - group of 6 »

I Dey - 1993 - books.google.com

... 182 12.6 A 'chain' of causal links in the **data** 183 12.7 ... information 193

13.2 **Map of relationship** between two concepts 204 13.3 ...

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Recent investigations in relational data base systems - group of 2 »

EF Codd - Proc. IFIP Congress, 1974 - informatik.uni-trier.de

... Michael D. Soo: Extending Existing **Dependency** Theory to ... Procedures, Caching and Views in **Data** Base Systems ... Methodology for Database Schema **Mapping** from Extended ...



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[book] Use Case Maps for Object-oriented Systems - group of 5 »

RJA Buhr, RS Casselman - 1996 - usecasemaps.org

... Use Case **Map** Documentation ... themselves the changed method whenever there is a **data** change that ... (The actual protocols provided for the **dependency** mechanism are ...

Cited by 205 - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#)

Design, construction, and application of a generic visual language generation environment - group of 8 »

K Zhang, DQ Zhang, J Cao - IEEE Transactions on Software Engineering, 2001 - doi.ieeecs.org

... that removes the **dependency relationship** between ViewController ... diagram, directions, distances, **data** and control ... The **mapping relationships** between an abstract ...

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e MelanoBase: An Online Locus-Specific Variant Database for Familial Melanoma - group of 2 »

DCY Fung, EA Holland, TM Becker, NK Hayward - HUMAN MUTATION, 2002 - doi.wiley.com

... They often **map** to the entities in the database schema and contain methods for ... 1. Implement **data** schema Deduce schema using functional **dependency** analysis ...

Cited by 7 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Contracts: specifying behavioral compositions in object-oriented systems - group of 2 »

R Helm, IM Holland, D Gangopadhyay - Proceedings of the European conference on object-oriented ..., 1990 - portal.acm.org

... variable, parameter or global **data** structure is ... ter defines a behavioral **dependency** between a Parent ... This **mapping** is specified through conformance declarations ...

Cited by 419 - [Related Articles](#) - [Web Search](#) - [Library Search](#)

Scenario-based modeling and its applications - group of 5 »

X Bai, WT Tsai, R Paul, K Feng, L Yu - Object-Oriented Real-Time Dependable Systems. 2002.(WORDS ..., 2002 - ieeexplore.ieee.org

... in terms of classes and their **relationships** including generalization, association, and **dependency** [3]. In ... Figure 6. An example of **data mapping** ...

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Method and apparatus for creating workflow maps of business processes - group of 2 »

F Flores, CF Bell III, PA Flores, RF Flores, RMM ... - US Patent 5,630,069, 1997 - Google Patents

... The STF processors translate between an application's **data** format and ... Business Process **Map** ... business process, which shows its workflows and their **relationship**. ...

Cited by 53 - [Related Articles](#) - [Web Search](#)

Dynamic interpretations in translucent patches: representation-based applications

A Kramer - Proceedings of the workshop on Advanced visual interfaces, 1996 - portal.acm.org

... the application **data** and semantic operations, the view contains a **mapping** of that ... Some **dependency** mechanism allows the view to update when the **data** in the ...

Cited by 4 - [Related Articles](#) - [Web Search](#)

J2EE development frameworks - group of 10 »

R Johnson - Computer, 2005 - ieeexplore.ieee.org

... Java **Data** Objects, which appeared as a Java Community ... a post- processing step to perform this **mapping** at runtime ... **Dependency** injection is a pure Java type of IoC ...

Cited by 134 - Related Articles - Cached - Web Search

An algorithm for Bayesian belief network construction from data - group of 9 »

J Cheng, DA Bell, W Liu - Proceedings of AI & STAT'97, 1997 - cs.ualberta.ca

... The result of this phase is an I-map. ... number of CI tests among the three **data** sets is ... to the difference in the obviousness of **dependency relationships** of the ...

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Feature-oriented engineering of PBX software for adaptability and reuseability - group of 4 »

KC Kang, S Kim, J Lee, K Lee - Software Practice and Experience, 1999 - doi.wiley.com

... that supplement the Feature Diagram with mutual **dependency** and mutual exclusion **relationships**. ... Type must be selected together with the **Data-Call** feature. ...

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Cited by 10 - Related Articles - Web Search

[Enforcing strict model-view separation in template engines](#) - group of 14 »

TJ Parr - Proceedings of the 13th international conference on World ..., 2004 - portal.acm.org

... Instead the server must **map** URLs to a chunk of code ... that it should not alter the model nor process **data**. ... powerful, but there is a direct **relationship** between a ...

Cited by 8 - Related Articles - Web Search

[Design Patterns with Use Case Maps: A Case Study in Reengineering an Object-Oriented Framework](#) - group of 4 »

RJA Buhr, RS Casselman, TW Pearce - jucmnav.softwareengineering.ca

... in Figure 3 the model-to-view AND fork pinpoints a place where Smalltalk's **dependency** mechanism could be ... Figure 3: AModel-View-Controller Use Case Map ... **Data 2** ...

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STEM (SmallTalk Environment of Module design) is an IC design environment written in Smalltalk aimed at integrating design automation tools with manual design. STEM is based on the Smalltalk model-view-controller concept. Each cell in the database is represented by a single Smalltalk class. This serves as the "model" and encapsulates all (permanent) information about the cell. Different design representations of the single model are achieved by calculating views which are strict ...

4 Implementing the model-view-controller paradigm in Ada 95



Jodene M. Sasine, Raymond J. Toal

November 1995 **Proceedings of the conference on TRI-Ada '95: Ada's role in global markets: solutions for a changing complex world TRI-Ada '95**

Publisher: ACM Press

Full text available: pdf(1.10 MB) Additional Information: [full citation](#), [references](#)

5 Refactoring model-view-controller



Stuart Hansen, Timothy V. Fossum

October 2005 **Journal of Computing Sciences in Colleges**, Volume 21 Issue 1

Publisher: Consortium for Computing Sciences in Colleges

Full text available: pdf(479.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Model-view-controller (MVC) is an important architectural design pattern that frequently does not receive the attention it deserves. It is generally treated as a prescriptive design pattern, where students are taught to use three different categories of objects to construct GUI programs. There are subtle and important aspects of MVC that anyone developing GUIs should know. We approach these issues in our classes by taking relatively simple GUI programs and refactoring them. Our emphasis is on ex ...

6 An event-driven model-view-controller framework for Smalltalk



Y.-P. Shan

September 1989 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications OOPSLA '89**, Volume 24 Issue 10

Publisher: ACM Press

Full text available: pdf(596.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Smalltalk Model-View-Controller (MVC) user interface paradigm uses polling for its input control. The polling loops consume CPU cycles even when the user is not interacting with the interface. Applications using Smalltalk as their front-end often suffer unnecessary performance loss. This paper presents a prototype event-driven MVC framework to solve these problems. A solution to the compatibility problem is also provided to allow interface objects built under both polling and event-driv ...

7 Software design, languages and systems: Customizing model-view-controller design pattern for Web controlled household appliances and devices



Stefan Dimov, Vikas Vyas, Mike Schardt, Abdullah Faruque, Susrutha Narla, Haihua Fu

March 2005 **Proceedings of the 43rd annual Southeast regional conference - Volume 2 ACM-SE 43**

Publisher: ACM Press

Full text available: pdf(564.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The tendency is that in the next few years the number of networked home appliances will increase. These appliances will be accessed remotely either directly or through a home gateway. Many different manufacturers produce home appliances using different hardware platforms. At the same time, the user interface and the logical operation of appliances of the same class are the same to some extent, even when the appliances are produced from different manufacturers. This paper presents generalized syste ...

Keywords: design patterns, graduate, software engineering

8 MoDE: a UIMS for Smalltalk



Yen-Ping Shan

September 1990

ACM SIGPLAN Notices , Proceedings of the European conference on object-oriented programming on Object-oriented programming systems, languages, and applications OOPSLA/ECOOP '90, Volume 25 Issue 10

Publisher: ACM Press

Full text available: pdf(1.18 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

While the Model-View-Controller (MVC) framework has contributed to many aspects of user interface development in Smalltalk, interfaces produced with MVC often have highly coupled model, view, and controller classes. This coupling and the effort required to use MVC make user interface creation a less effective aspect of Smalltalk. The Mode Development Environment (MoDE) is a user interface management system (UIMS) which addresses the above issues. MoDE is composed of two major com ...

9 From dated to dynamic: a campus newsletter unfolds as a web service



Kevin W. Bishop, Arlen Johnson, Deb Wentorf

November 2002

Proceedings of the 30th annual ACM SIGUCCS conference on User services SIGUCCS '02

Publisher: ACM Press

Full text available: pdf(155.85 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

To answer many and disparate needs in campus web services at Rensselaer Polytechnic Institute, a unit of the Division of the Chief Information Officer, has developed an application that separates the strata of personnel involved in building and maintaining dynamic, high profile web sites. By separating the roles of content providers, web designers, and system programmers, each is allowed to contribute their expertise and expend their energies proficiently without unduly interrupting the work of ...

Keywords: J2EE, Java, RPI, Rensselaer Polytechnic Institute, The Kiosk, campus publication, customer service, help desk, news services, newsletter, open-source, web application, web site

10 Electronic maneuvering board and dead reckoning tracer decision aid for the officer of the deck



Kenneth L. Ehresman, Joey L. Frantzen

September 2001

ACM SIGAda Ada Letters , Proceedings of the 2001 annual ACM SIGAda international conference on Ada SIGAda '01, Volume XXI Issue 4

Publisher: ACM Press

Full text available: pdf(194.73 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The U.S. Navy currently bases the majority of our contact management decisions around a time and manning intensive paper-based Maneuvering Board (MOBOARD) process. The use of Maneuvering Boards is a perishable skill that has a steep learning curve. In order to overcome inherent human error, it is not uncommon to have up to four people simultaneously involved in solving just one maneuvering problem. Additional manning requirements are involved on many Naval Ships in order to accurately ...

Keywords: Contact Avoidance, GNAT, GtkAda, Maneuvering Board, Model-View-Controller, Navigation, Officer of the Deck Aid, U.S. Navy

11

Components, frameworks, patterns





Ralph E. Johnson

May 1997 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 1997 symposium on Software reusability SSR '97**, Volume 22 Issue 3

Publisher: ACM Press

Full text available: pdf(714.31 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

12 Structuring graphical paradigms in TkGofer



Koen Claessen, Ton Vullingsh, Erik Meijer

August 1997 **ACM SIGPLAN Notices , Proceedings of the second ACM SIGPLAN international conference on Functional programming ICFP '97**, Volume 32 Issue 8

Publisher: ACM Press

Full text available: pdf(1.07 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we describe the implementation of several graphical programming paradigms (Model View Controller, Fudgets, and Functional Animations) using the GUI library TkGofer. This library relies on a combination of monads and multiple-parameter type classes to provide an abstract, type safe interface to Tcl/Tk. We show how choosing the right abstractions makes the given implementations surprisingly concise and easy to understand.

13 Creating host compliance in a portable framework: a study in the reuse of design patterns



Phillip M. Yelland

October 1996 **ACM SIGPLAN Notices , Proceedings of the 11th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '96**, Volume 31 Issue 10

Publisher: ACM Press

Full text available: pdf(1.38 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This report describes an experiment carried out at ParcPlace-Digitalk which sought to increase the look-and-feel compliance of portable applications built using the company's Smalltalk-based VisualWorks product. We outline the structure of the current VisualWorks user interface framework, and the precise requirements which the experimental system sought to fulfill. We go on to show how we were able to reuse design patterns from the literature in a *generative* fashion, to direct the evolution ...

14 Web site engineering: Enforcing strict model-view separation in template engines



Terence John Parr

May 2004 **Proceedings of the 13th international conference on World Wide Web WWW '04**

Publisher: ACM Press

Full text available: pdf(118.03 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The mantra of every experienced web application developer is the same: *thou shalt separate business logic from display*. Ironically, almost all template engines allow violation of this separation principle, which is the very impetus for HTML template engine development. This situation is due mostly to a lack of formal definition of separation and fear that enforcing separation emasculates a template's power. I show that not only is strict separation a worthy design principle, but that we c ...

Keywords: model-view-controller, template engine, web application

15 DDD papers: Domain driven web development with WebJinn

Sergei Kojarski, David H. Lorenz



October 2003 **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '03**

Publisher: ACM Press

Full text available: pdf(266.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Web application development cuts across the HTTP protocol, the client-side presentation language (HTML, XML), the server-side technology (Servlets, JSP, ASP, PHP), and the underlying resource (files, database, information system). Consequently, web development concerns including functionality, presentation, control, and structure cross-cut, leading to tangled and scattered code that is hard to develop, maintain, and reuse. In this paper we analyze the cause, consequence, and remedy for this cross-cut.

Keywords: JSP, adaptability, aspect-oriented programming (AOP), crosscutting concerns, dynamic pages, generative programming, inter-crosscutting, intra-crosscutting, model-view-controller (MVC), reusability, scattering, struts, tangling, web application, web development, web programming

16 Experience reports: process analysis and improvement: Towards systematic recycling of systems requirements

Nadine Heumesser, Frank Houdek

May 2003 **Proceedings of the 25th International Conference on Software Engineering ICSE '03**

Publisher: IEEE Computer Society

Full text available: pdf(926.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
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Many (technical) systems are not developed from scratch but as an evolution of existing systems. Consequently, a large portion of the system requirements employed can be recycled when building the next version of the product. Usually, this recycling step is performed unsystematically, i.e. simply by copying and modifying complete requirements documents. In this paper, we present in a case study a lightweight requirements recycling approach which evolved from observations and concrete needs of practitioners.

17 A unified component framework for dynamically extensible virtual environments



Andrzej Kapolka, Don McGregor, Michael Capps

September 2002 **Proceedings of the 4th international conference on Collaborative virtual environments CVE '02**

Publisher: ACM Press

Full text available: pdf(129.03 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

If large-scale shared virtual worlds are to be established on the Internet, they must be based on technologies that allow them to adapt, scale, and evolve continuously—that is, without their being taken offline. In the course of designing NPSNET-V, an architecture intended to satisfy these criteria through component-based dynamic extensibility, the authors recognized the need for a consistent, unified component framework. This framework, which they implemented in Java™, allows one to construct ...

Keywords: Java, XML, component-based architectures, dynamic extensibility, networked virtual environments


18 An approach to support automatic generation of user interfaces



Prasun Dewan, Marvin Solomon

October 1990 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 12 Issue 4

Publisher: ACM Press

Full text available:  pdf(3.55 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In traditional interactive programming environments, each application individually manages its interaction with the human user. The result is duplication of effort in implementing user interface code and nonuniform—hence confusing—input conventions. This paper presents an approach to support automatic generation of user interfaces in environments based on algebraic languages. The approach supports the editing model of interaction, which allows a user to view all appli ...

19 Pattern categories: a mathematical approach for organizing design patterns 

Saluka R. Kodituwakku, Peter Bertok

June 2003 **Proceedings of the 2002 conference on Pattern languages of programs - Volume 13 CRPIT '02**

Publisher: Australian Computer Society, Inc.

Full text available:  pdf(558.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe mathematical structures in existing pattern or ganization methods and introduce a new organization method based on those mathematical structures. This method organizes patterns into related groups called pattern categories by structuring them according to mathematical structures. Our method assists users to find a set of patterns that can be collectively applied to solve complex design problems. Furthermore, it assists to find alternatives for such patterns. Thus this method facilita ...

Keywords: category theory, design pattern, graph theory, pattern category, pattern language

20 Second international workshop on model driven web engineering (MDWE'06): 



Pattern-based development of user-friendly web applications

Ina Wentzlaff, Markus Specker

July 2006 **Workshop proceedings of the sixth international conference on Web engineering ICWE '06**

Publisher: ACM Press

Full text available:  pdf(274.96 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Using patterns to preserve common problem-solving knowledge is a very popular approach. Each computer science community applies its own techniques to document engineering principles for the handling of recurring software development questions using patterns. Thus various pattern collections were evolved for dealing with specific problems of the respective community. As a result comparable patterns or redundant pattern descriptions exist in different collections leading unintentionally to a "rein ...

Keywords: design patterns, human-computer interaction, problem frames, software engineering, usability

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